Title (en)

N2-(1-carboxy-3-oxo-3-phenylpropyl)-L-Lysine compounds and their derivatives.

Title (de)

N2-(1-carboxy-3-oxo-3-phenylpropyl)-L-Lysinverbindungen und deren Abkömmlinge.

Title (fr)

Composés de la N2-(1-carboxy-3-oxo-3-phénylpropyl)-L-lysine et leurs dérivés.

Publication

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Application

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Priority

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Abstract (en)

A process for preparing N<2>-(1-carboxy-3-oxo-3-phenylpropyl)-L-lysine derivative having the formula (I): <CHEM> wherein R<1> is an alkyl group and R<2> is an acyl or urethane type protecting group, which comprises reacting a beta -benzoylacrylic acid ester with an L-lysine derivative in the presence of a base, a process for preparing N<2>-(1-carboxy-3-phenylpropyl)-L-lysine derivative by the catalytic hydrogenolysis of the compound (I), N<2>-(1-ethocycarbonyl-3-oxo-3-phenylpropyl)-N<6>-trifluoroacetyl-L-ly sine and N<2>-(1-ethoxycarbonyl-3-phenylpropyl)-N<6>-trifluoroacetyl-L-lysine, especially which having (S)-configuration with respect to the asymmetric carbon atom at the 1-position of the propyl group. According to the present invention, there can be obtained, economically and in a high yield, N<2>-(1-carboxy-3 -oxo-3-phenylpropyl)-L-lysine derivative, especially optically active N<2>-[1-(S)-carboxy-3-oxo-3-phenylpropyl]-L-lysine derivative, and the reduced compounds thereof, the derivative being useful as the intermediate of lysinopril which is expected to be used as an antihypertensive agent, and the present invention provices a remarkably useful method for the economical and efficient production of lysinopril in industrial scale.

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